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         Apr 28
                 Pharmacokinetic information and systematic chemical names
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         May 05
                 added to PHAR
                 MEDLINE file segment of TOXCENTER reloaded
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                 Supporter information for ENCOMPPAT and ENCOMPLIT updated
         May 15
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                 Simultaneous left and right truncation added to WSCA
         May 19
NEWS 19
                 RAPRA enhanced with new search field, simultaneous left and
NEWS 20
         May 19
                 right truncation
                 Simultaneous left and right truncation added to CBNB
NEWS 21
         Jun 06
NEWS 22
                 PASCAL enhanced with additional data
         Jun 06
                 2003 edition of the FSTA Thesaurus is now available
NEWS 23
         Jun 20
                 HSDB has been reloaded
NEWS 24
         Jun 25
                 Data from 1960-1976 added to RDISCLOSURE
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         Jul 16
NEWS 26
         Jul 21
                 Identification of STN records implemented
                 Polymer class term count added to REGISTRY
NEWS 27
         Jul 21
                 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and
NEWS 28
         Jul 22
                 Right Truncation available
                 New pricing for EUROPATFULL and PCTFULL effective
NEWS 29
         AUG 05
                 August 1, 2003
                 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 30
         AUG 13
                 PATDPAFULL: one FREE connect hour, per account, in
NEWS 31
         AUG 15
                 September 2003
                 PCTGEN: one FREE connect hour, per account, in
NEWS 32
         AUG 15
                 September 2003
                 RDISCLOSURE: one FREE connect hour, per account, in
NEWS 33
         AUG 15
                 September 2003
                 TEMA: one FREE connect hour, per account, in
NEWS 34
         AUG 15
                 September 2003
                 Data available for download as a PDF in RDISCLOSURE
NEWS 35
         AUG 18
                 Simultaneous left and right truncation added to PASCAL
NEWS 36
         AUG 18
                 FROSTI and KOSMET enhanced with Simultaneous Left and Right
NEWS 37
         AUG 18
                 Simultaneous left and right truncation added to ANABSTR
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=> s antibod?

L1 2461286 ANTIBOD?

=> s l1 and neutraliz?

L2 116085 L1 AND NEUTRALIZ?

=> sl2 and Nitrosylated cysteine SL2 IS NOT A RECOGNIZED COMMAND The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> s l2 and cysteine L3 876 L2 AND CYSTEINE

=> s l3 and nitrosylated L4 4 L3 AND NITROSYLATED

=> dup remove 14
PROCESSING COMPLETED FOR L4
L5 2 DUP REMOVE L4 (2 DUPLICATES REMOVED)

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN Document No. 129:121648 Antibodies specifically 1998:485093 recognizing a nitrosylated protein, method of preparation, and therapeutic and diagnostic use. Chagnaud, Jean-Luc; Geffard, Michel; Veyret, Bernard; Vincendeau, Philippe (Centre National de la Recherche Scientifique (CNRS), Fr.). PCT Int. Appl. WO 9829452 A1 19980709, 143 pp. DESIGNATED STATES: W: JP, US; RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, (French). CODEN: PIXXD2. APPLICATION: WO IE, IT, LU, MC, NL, PT, SE. 1997-FR2412 19971223. PRIORITY: FR 1996-16207 19961230. Polyclonal and monoclonal antibodies are provided which AΒ specifically recognize a nitrosylated protein, and, more particularly, a NO carrier, e.g. albumin. Also provided are immunogens for prepg. the antibodies and the pharmaceutical compns. contg. them. Further provided is a method using the antibodies for detecting in vitro nitrosylated proteins in a biol. sample.

DUPLICATE 1 ANSWER 2 OF 2 MEDLINE on STN 97131703 Document Number: 97131703. PubMed ID: 8977204. nitrosylated by activated macrophages possesses antiparasitic effects neutralized by anti-NO-acetylated-cysteine antibodies. Mnaimneh S; Geffard M; Veyret B; Vincendeau P. (Parasitology Laboratory, University of Bordeaux II, France.) JOURNAL OF IMMUNOLOGY, (1997 Jan 1) 158 (1) 308-14. Journal code: 2985117R. ISSN: 0022-1767. Pub. country: United States. Language: English. Activated macrophages exert an L-arginine-dependent cytostatic effect on the extracellular parasite, Trypanosoma musculi. This effect is not observed in the absence of albumin in the culture medium but is restored by the addition of albumin, indicating the presence of an albumin-nitric oxide (NO) adduct acting as an effector molecule. Since Lcysteine represents a privileged target for NO, an immunochemical approach was performed using an acetylated-cysteine-BSA conjugate. This conjugate was nitrosylated using sodium nitrite as a NO donor. Binding of NO to the conjugated haptens was assayed using spectrophotometry. It was completely abolished by mercuric chloride, confirming the presence of an S-NO bond. Polyclonal Abs were obtained after immunizing rabbits with S-nitroso-acetylated-cysteine (NO-ac-Cys) conjugates. Using the enzyme-linked immunosorbent assay method, Ab avidity and specificity were determined by competition experiments between NO-ac-Cys-conjugated compounds and other nitrosylated or non-nitrosylated compounds. The resulting cross-reactivity ratios showed that conjugated NO-ac-Cys-BSA was the best recognized compound. These Ab were used for an in vitro study of the kinetics of NO-derived compounds from activated murine macrophages. Anti-NO-ac-Cys Ab inhibited the antimicrobial effect of activated macrophages on the extracellular parasite, T. musculi. Moreover, the L-arginine-dependent antiparasitic activity of supernatants from Calmette-Guerin bacillus-activated macrophages required the presence of albumin and was also inhibited by anti-NO-ac-Cys Ab, showing the effector role of S-nitroso-albumin.

=> dup remove 13
PROCESSING COMPLETED FOR L3
L6 355 DUP REMOVE L3 (521 DUPLICATES REMOVED)

=> s 16 and nitrosylated
L7 2 L6 AND NITROSYLATED

=> dup remove 17
PROCESSING COMPLETED FOR L7
L8 2 DUP REMOVE L7 (0 DUPLICATES REMOVED)

ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN Document No. 129:121648 Antibodies specifically 1998:485093 recognizing a nitrosylated protein, method of preparation, and therapeutic and diagnostic use. Chagnaud, Jean-Luc; Geffard, Michel; Veyret, Bernard; Vincendeau, Philippe (Centre National de la Recherche Scientifique (CNRS), Fr.). PCT Int. Appl. WO 9829452 Al 19980709, 143 pp. DESIGNATED STATES: W: JP, US; RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (French). CODEN: PIXXD2. APPLICATION: WO 1997-FR2412 19971223. PRIORITY: FR 1996-16207 19961230. Polyclonal and monoclonal antibodies are provided which AB specifically recognize a nitrosylated protein, and, more particularly, a NO carrier, e.g. albumin. Also provided are immunogens for prepg. the antibodies and the pharmaceutical compns. contg. them. Further provided is a method using the antibodies for detecting in vitro nitrosylated proteins in a biol. sample.

ANSWER 2 OF 2 MEDLINE on STN Albumin 97131703 Document Number: 97131703. PubMed ID: 8977204. nitrosylated by activated macrophages possesses antiparasitic effects neutralized by anti-NO-acetylated-cysteine antibodies. Mnaimneh S; Geffard M; Veyret B; Vincendeau P. (Parasitology Laboratory, University of Bordeaux II, France.) JOURNAL OF IMMUNOLOGY, (1997 Jan 1) 158 (1) 308-14. Journal code: 2985117R. ISSN: 0022-1767. Pub. country: United States. Language: English. Activated macrophages exert an L-arginine-dependent cytostatic effect on AB the extracellular parasite, Trypanosoma musculi. This effect is not observed in the absence of albumin in the culture medium but is restored by the addition of albumin, indicating the presence of an albumin-nitric oxide (NO) adduct acting as an effector molecule. Since Lcysteine represents a privileged target for NO, an immunochemical approach was performed using an acetylated-cysteine-BSA conjugate. This conjugate was nitrosylated using sodium nitrite as a NO donor. Binding of NO to the conjugated haptens was assayed using spectrophotometry. It was completely abolished by mercuric chloride, confirming the presence of an S-NO bond. Polyclonal Abs were obtained after immunizing rabbits with S-nitroso-acetylated-cysteine (NO-ac-Cys) conjugates. Using the enzyme-linked immunosorbent assay method, Ab avidity and specificity were determined by competition experiments between NO-ac-Cys-conjugated compounds and other The nitrosylated or non-nitrosylated compounds. resulting cross-reactivity ratios showed that conjugated NO-ac-Cys-BSA was the best recognized compound. These Ab were used for an in vitro study of the kinetics of NO-derived compounds from activated murine macrophages. Anti-NO-ac-Cys Ab inhibited the antimicrobial effect of activated macrophages on the extracellular parasite, T. musculi. Moreover, the L-arginine-dependent antiparasitic activity of supernatants from Calmette-Guerin bacillus-activated macrophages required the presence of albumin and was also inhibited by anti-NO-ac-Cys Ab, showing the effector role of S-nitroso-albumin.

L11 ANSWER 1 OF 1 MEDLINE on STN

neutralized by anti-NO-acetylatedcysteine antibodies. Mnaimneh S; Geffard M; Veyret B; Vincendeau P. (Parasitology Laboratory, University of Bordeaux II, France.) JOURNAL OF IMMUNOLOGY, (1997 Jan 1) 158 (1) 308-14. Journal code: 2985117R. ISSN: 0022-1767. Pub. country: United States. Language: English. Activated macrophages exert an L-arginine-dependent cytostatic effect on AΒ the extracellular parasite, Trypanosoma musculi. This effect is not observed in the absence of albumin in the culture medium but is restored by the addition of albumin, indicating the presence of an albumin-nitric oxide (NO) adduct acting as an effector molecule. Since Lcysteine represents a privileged target for NO, an immunochemical approach was performed using an acetylated-cysteine-BSA conjugate. This conjugate was nitrosylated using sodium nitrite as a NO donor. Binding of NO to the conjugated haptens was assayed using spectrophotometry. It was completely abolished by mercuric chloride, confirming the presence of an S-NO bond. Polyclonal Abs were obtained after immunizing rabbits with S-nitroso-acetylated-cysteine (NO-ac-Cys) conjugates. Using the enzyme-linked immunosorbent assay method, Ab avidity and specificity were determined by competition experiments between NO-ac-Cys-conjugated compounds and other nitrosylated or non-nitrosylated compounds. The resulting cross-reactivity ratios showed that conjugated NO-ac-Cys-BSA was the best recognized compound. These Ab were used for an in vitro study of the kinetics of NO-derived compounds from activated murine macrophages. Anti-NO -ac-Cys Ab inhibited the antimicrobial effect of activated macrophages on the extracellular parasite, T. musculi. Moreover, the L-arginine-dependent antiparasitic activity of supernatants from Calmette-Guerin bacillus-activated macrophages required the presence of albumin and was also inhibited by anti-NO-ac-Cys Ab, showing the effector role of S-nitroso-albumin. => d 16ANSWER 1 OF 355 CAPLUS COPYRIGHT 2003 ACS on STN L6 AN 2003:511361 CAPLUS DN 139:67772 Mutein of Tat protein of human immunodeficiency virus ΤI Klein, Michel; Rappaport, Jay; Zagury, Jean-Francois IN PA Aventis Pasteur, Fr. so PCT Int. Appl., 46 pp. CODEN: PIXXD2 DTPatent English LA FAN.CNT 1 APPLICATION NO. DATE PATENT NO. KIND DATE _____ ______ ______ _ _ _ _ WO 2002-EP14841 20021204 WO 2003054006 A2 20030703 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,

PubMed ID: 8977204.

nitrosylated by activated macrophages possesses antiparasitic effects

Albumin

PRAI US 2001-339607P

MR, NE, SN, TD, TG

P

20011211

97131703 Document Number: 97131703.

=> s l12 and antibod? L13 8 L12 AND ANTIBOD?

=> dup remove 113
PROCESSING COMPLETED FOR L13
L14 4 DUP REMOVE L13 (4 DUPLICATES REMOVED)

=> d 114 1-4 cbib abs

substrates.

proteins in a biol. sample.

L14 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN Document No. 136:366141 Method for assaying protein 2002:368771 nitrosylation. Jaffrey, Samie; Ferris, Christopher D.; Snyder, Solomon H. (The Johns Hopkins University, USA; Memorial Sloan-Kettering Cancer Center). PCT Int. Appl. WO 2002039119 A2 20020516, 39 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-US42826 20011029. PRIORITY: US 2000-PV244097 20001027. Many of the effects of nitric oxide are mediated by the direct modification of cysteine residues resulting in an adduct called a nitrosothiol. A method to detect proteins which contain nitrosothiols involves several steps. Nitrosylated cysteines are converted to tagged cysteines. Tagged proteins can then be detected, for example, by immunoblotting and/or can be purified by affinity chromatog. The method is applicable to the detection of S-nitrosylated proteins in cell lysates following in vitro S-nitrosylation, as well as to the detection of endogenous S-nitrosothiols in selected protein

- L14 ANSWER 2 OF 4 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN 2001:400866 Document No.: PREV200100400866. Increased levels of nitrosylated proteins in serum and DNA damage in lymphocytes of patients undergoing hemodialysis. Mitrogianni, Z. (1); Barbouti, A.; Galaris, D.; Siamopoulos, K. C. (1). (1) Dept. of Nephrology, University Hospital of Ioannina, Ioannina Greece. Nephrology Dialysis Transplantation, (June, 2001) Vol. 16, No. 6, pp. A139. print. Meeting Info.: Annual Congress of the European Renal Association and the European Dialysis and Transplant Association Vienna, Austria June 24-27, 2001 ISSN: 0931-0509. Language: English. Summary Language: English.
- L14 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS on STN

 1998:485093 Document No. 129:121648 Antibodies specifically
 recognizing a nitrosylated protein, method of
 preparation, and therapeutic and diagnostic use. Chagnaud, Jean-Luc;
 Geffard, Michel; Veyret, Bernard; Vincendeau, Philippe (Centre National de
 la Recherche Scientifique (CNRS), Fr.). PCT Int. Appl. WO 9829452 A1
 19980709, 143 pp. DESIGNATED STATES: W: JP, US; RW: AT, BE, CH, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (French). CODEN: PIXXD2.
 APPLICATION: WO 1997-FR2412 19971223. PRIORITY: FR 1996-16207 19961230.

 AB Polyclonal and monoclonal antibodies are provided which
 specifically recognize a nitrosylated protein, and,
 more particularly, a NO carrier, e.g. albumin. Also provided are
 immunogens for prepg. the antibodies and the pharmaceutical
 compns. contg. them. Further provided is a method using the
 antibodies for detecting in vitro nitrosylated

L14 ANSWER 4 OF 4 MEDLINE on STN DUPLICATE 1
1998019329 Document Number: 98019329. PubMed ID: 9353418. Nitrosylated

bovine serum albumin derivatives as pharmacologically active nitric oxide congeners. Ewing J F; Young D V; Janero D R; Garvey D S; Grinnell T A. (NitroMed, Inc., Bedford, Massachusetts 01730, USA.) JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1997 Nov) 283 (2) 947-54. Journal code: 0376362. ISSN: 0022-3565. Pub. country: United States. Language: English.

Although nitrosothiols have been suggested to act as regulators of cell AΒ (patho)physiology, little is known about the pharmacology of nitrosylated proteins as nitric oxide (NO.) congeners. We describe the molecular consequences of nitrosylating bovine serum albumin (BSA) at multiple specific sites and demonstrate that the product S-nitrosoproteins exert NO.-like activity. The content of nucleophilic nitrosylation sites (i.e., free sulfhydryl groups) in native BSA was increased by either reduction with dithiothreitol or thiolation with N-acetylhomocysteine. Fourteen moles of nitrogen monoxide (NO)/mol BSA equivalent were then selectively positioned on either the endogenous sulfhydryl groups of reduced BSA or the homocysteine moieties of thiolated BSA, respectively. Each resulting S-nitrosoprotein adduct was an oligomeric mixture across the >2000 kDa to approximately 66 kDa molecular mass range. The BSA-derived S-nitrosoproteins were immunoreactive with antibodies against native BSA but evidenced compromised long-chain fatty acid binding. Both types of BSA-derived S-nitrosoproteins suppressed human coronary artery smooth muscle cell proliferation to a similar degree (IC50 approximately 70 microM NO. equivalents) and were significantly more effective antiproliferative agents than a standard NO. donor, DETA NONOate. Antiproliferative bioactivity reflected the NO functionalities carried by each protein, but was independent of molecular mass of the nitrosylated BSA adducts. These data exemplify the rational design and characterization of protein-based S-nitrosothiols as NO. congeners and suggest that such agents could have therapeutic potential as NO delivery systems.

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